Stationary compressors SF1 - SF2 - SF4
ASB: Greasing instructions and replacement of seals

1996-02

1 Replacement of seals

1.1 Replacing interval

Compressor type	Seal replacing interval
SF1/2/4 - 8 bar	Every 10,000 running hours
SF1/2/4 - 10 bar	Every 7,500 running hours

1.2 Seals for the fixed scroll

Seal types

See Fig. 1.

Procedure for tip seals (Fig. 1)

1. Remove seals (1 and 2).
2. Insert the new seal (2): start from the centre, then gently push the seal into the groove by hand in one smooth movement.
3. Then insert the new seal (1): start from the end of seal (2) (both seals should touch each other), then push seal (1) further into the groove.

Important
The seals are provided with small lips. Make sure that the seals are fitted in such a way that the lips are positioned at the bottom of the groove and at the inner side of the curve.

Procedure for dust seals (Figs. 1 up to 3)

1. Remove seals (3 and 4).
2. Insert the new seal (round tube) (3) in such a way that the seam is positioned at the bottom.
3. Then insert the new seal (square one) (4) above the round tube; make sure that the seam is positioned at the right.

1.3 Seals for the orbiting scroll

Seal types

See Fig. 4.

Procedure (Figs. 4 and 5)

1. Remove seals (5 and 6).
2. Insert the new seal (5): start from the centre, then gently push the seal into the groove by hand in one smooth movement.
3. Then insert the new seal (6): start from the end of seal (5) (both seals should touch each other), then push the seal further into the groove.

Important
The seals are provided with lips. Make sure that the seals are fitted in such a way that the lips are positioned at the bottom of the groove and at the inner side of the curve.

2 Greasing instructions

2.1 Greasing quantity and interval

Compressor	Greasing quantity (if greasing for first time)	*Greasing quantity (after the first time)*
SF1/2 - 8 bar	Pumping 5 times	Pumping 3 times 2-yearly or every 10,000 running hours 1)
SF4 - 8 bar	Pumping 6 times	Pumping 4 times 2-yearly or every 10,000 running hours 1)
SF1/2 - 10 bar	Pumping 5 times	Pumping 3 times 2-yearly or every 7,500 running hours 1)
SF4 - 10 bar	Pumping 6 times	Pumping 4 times 2-yearly or every 7,500 running hours 1)

1) Whichever interval comes first.

Important
- Never loosen screws (2-Fig. 6) as they are used to adjust the axial clearance between the fixed scroll and orbiting scroll.
- Only use special Atlas Copco grease; other brands shorten the service life of the bearings.
- A grease gun (11-Fig. 7), designed to house the grease tube (12) and provided with the proper adaptors (9 and 10), is also available from Atlas Copco.

Part numbers

For grease pump	2903 0004 00
For grease cartridge	2892 6100 20

2.2 Procedure

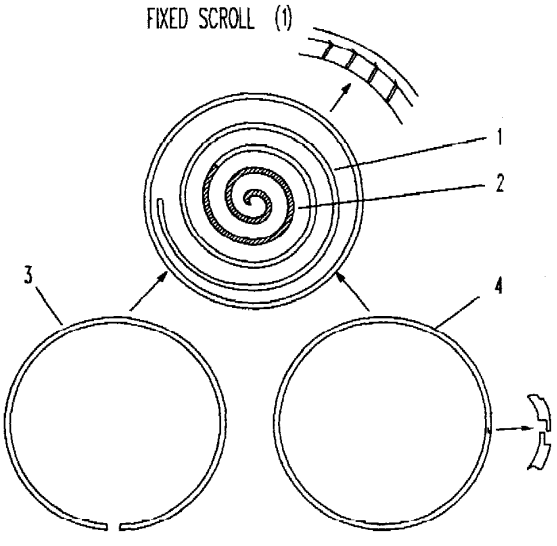
After removing the fan housing and fan:

For the pin crank bearings (3 and 6-Fig. 6)

1. Remove dust cap (1).
2. Fit adaptor (9-Fig. 7) to the grease gun and push the gun against nipple (13-Fig. 8). Pump grease into bearing (6-Fig. 8).
3. Fit adaptor (10-Fig. 7) to the grease gun and put a layer of grease around the circumference of bearing (3-Fig. 9).
4. Repeat this procedure for the other bearings (3 and 6) at the bottom left and bottom right of the bearing housing.

For the orbiting scroll bearing (8-Figs. 6 and 10)

1. Remove one of the dust caps (4).
2. Rotate the crankshaft until the key is positioned at an angle of 45°. See Fig. 10.
3. Fit adaptor (9-Fig. 7) to the grease gun, insert it into hole (13-Fig. 10) and push the gun against grease nipple (7-Fig. 6). If it is impossible to rotate the crankshaft manually while holding the grease gun as described above, the position of the gun is correct. Pump grease into bearing (8-Fig. 10).



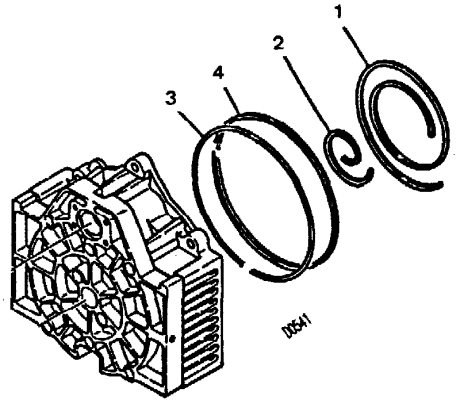


Fig. 1

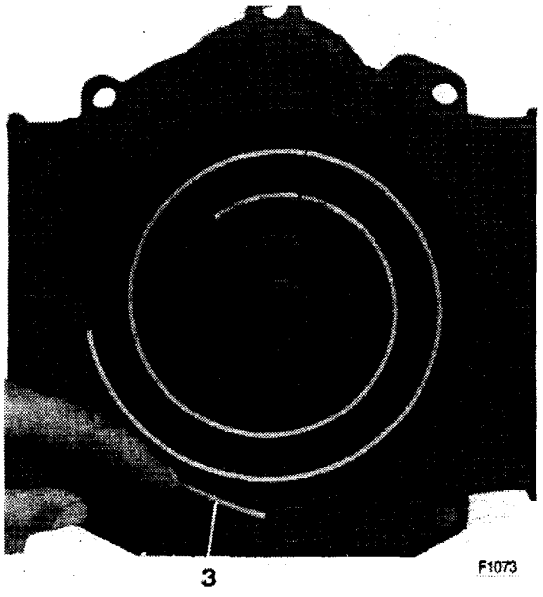


Fig. 2

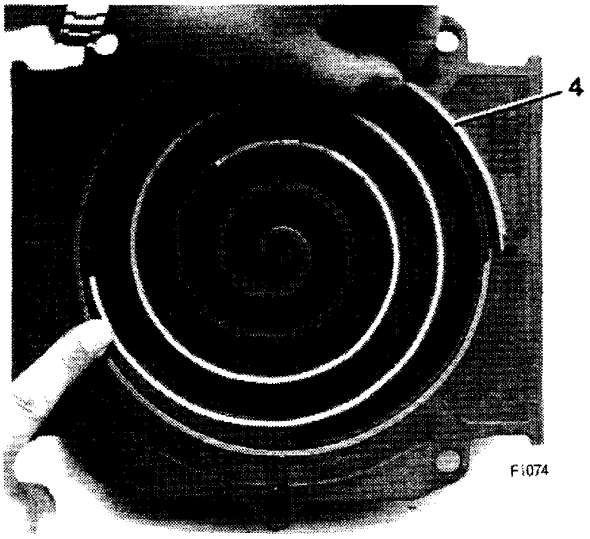


Fig. 3

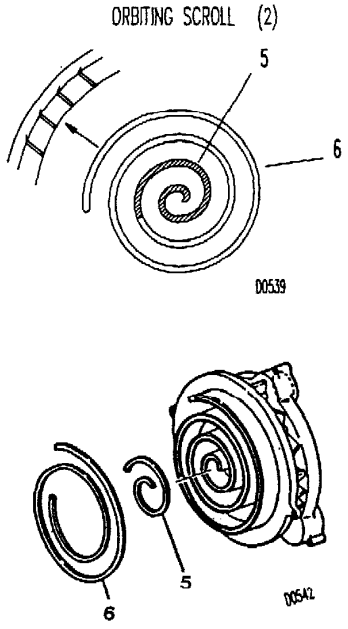


Fig. 4

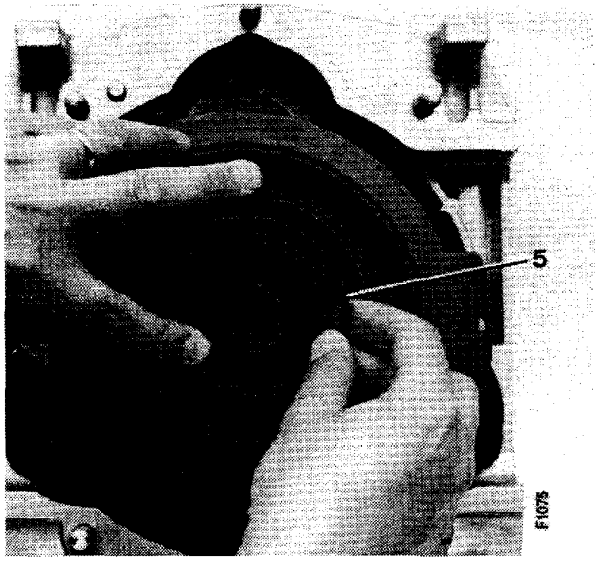


Fig. 5

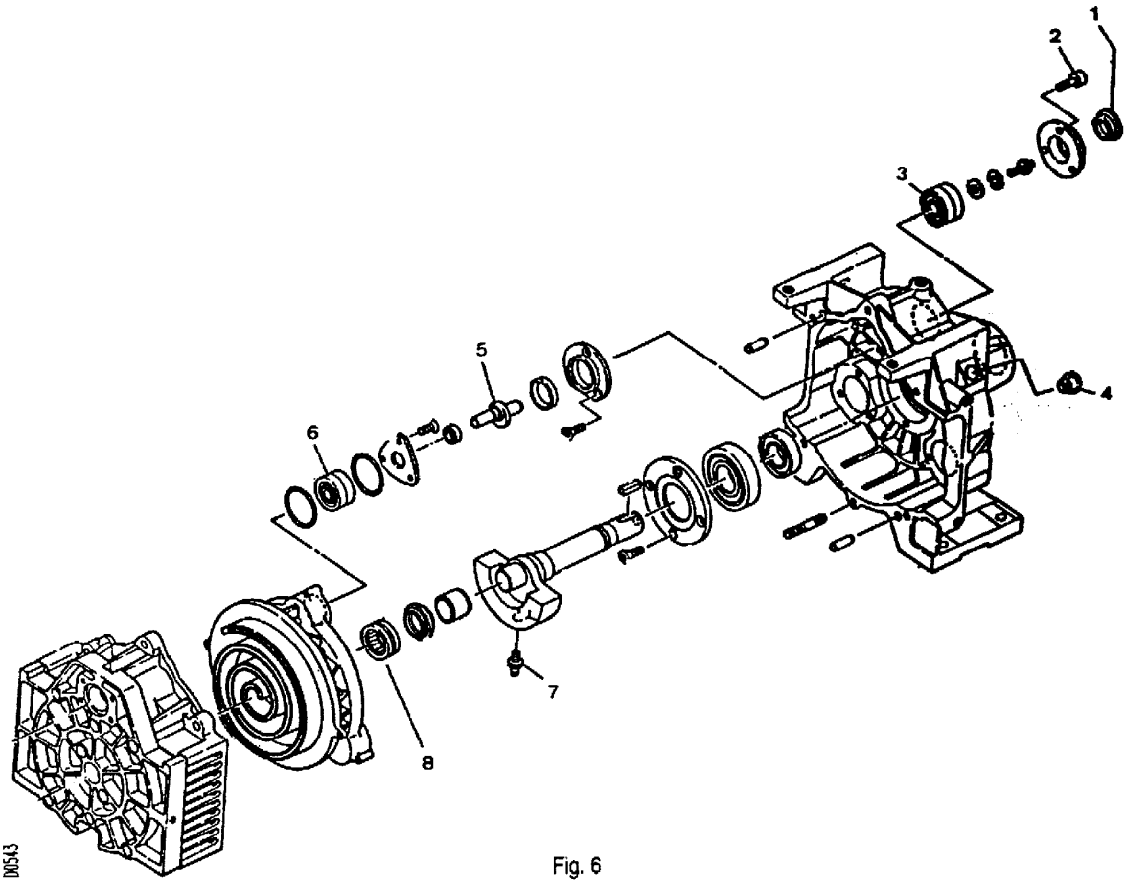


Fig. 6

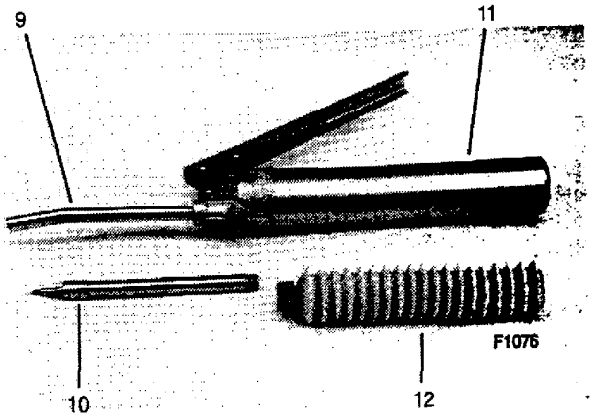
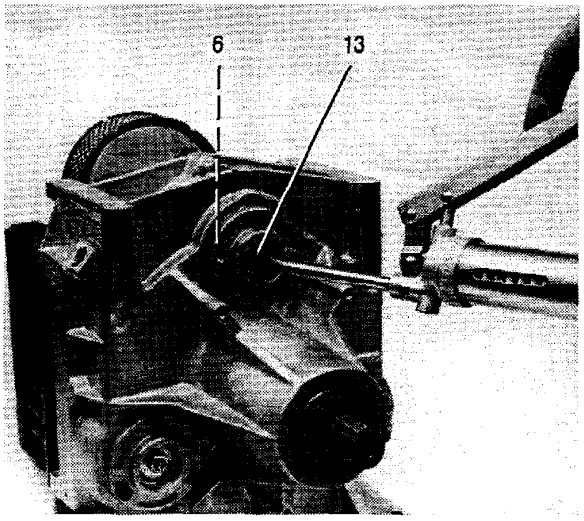
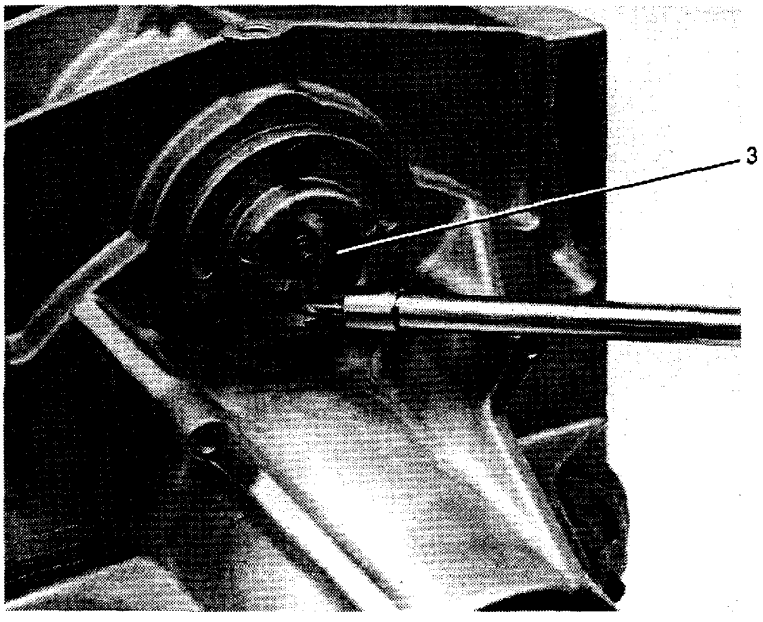


Fig. 7



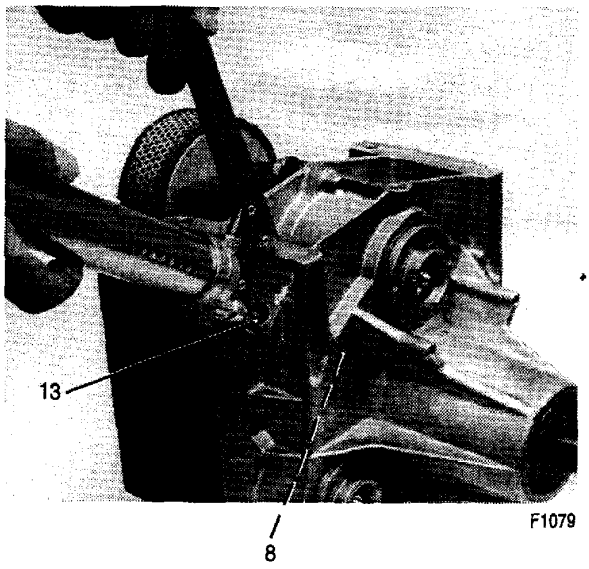
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Fig. 8



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Fig. 9



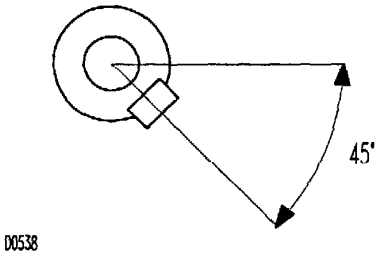


Fig. 10